

B.E. Comp. sem VIII M-2014

Sub— DC.

03/06/14

Q P Code : **MV-19366**

(3 Hours)

[Total Marks : 100

- N.B. : (1) Question No. 1 is compulsory.
(2) Solve **any four** from the remaining **six** questions.

1. (a) What is the need of removing unreferenced entity? 5
(b) "Vector Time Stamp mechanism for synchronization is used for capturing causality of events". Justify. 5
(c) What are goals of distributed system? 5
(d) What are the statefull and stateless servers. 5
2. (a) Explain distributed algorithm for mutual exclusion. What are the advantages and the disadvantages of it over centralized algorithm. 10
(b) Explain Absolute Ordering and Casual Ordering Process with the help of examples for many to many communication. 10
3. (a) Discuss issues concerned with parameter passing in RPC. 10
(b) What are good features of a Distributed File Systems? Explain file sharing semantics of it. 10
4. (a) Explain recursive name resolution with advantages and disadvantages. 10
(b) Define Thrashing. What are the methods used for solving thrashing problems? 10
5. (a) Explain the design issues with respect to Distributed Computing Environment. 10
(b) What is the notion of a context in namespace? Explain the different clustering and context binding strategies of names. 10
6. (a) Explain the different load estimation policies and process transfer policies used by load balancing algorithms. 10
(b) Explain various forms of message oriented communication with suitable examples. 10
7. Write short note on following **any two**. 20
 - (a) Object Adapter
 - (b) Light-weight RPC
 - (c) Consistency Models
 - (d) Fault Tolerance.